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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/712,042	11/14/2000	Lixiao Wang	S63.2-9213	9167
490 7	590 09/14/2004		EXAMINER	
VIDAS, ARRETT & STEINKRAUS, P.A.			THOMPSON, MICHAEL M	
6109 BLUE CI SUITE 2000	RCLE DRIVE		ART UNIT PAPER NUMBER	
MINNETONKA, MN 55343-9185		3763		

DATE MAILED: 09/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/712,042	WANG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Michael M. Thompson	3763	
The MAILING DATE of this communica Period for Reply	tion appears on the cover sheet with	the correspondence address	5
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA  - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communical of the period for reply specified above is less than thirty (30) do if NO period for reply is specified above, the maximum statute Failure to reply within the set or extended period for reply will any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	ATION. 7 CFR 1.136(a). In no event, however, may a repration. ays, a reply within the statutory minimum of thirty (ays period will apply and will expire SIX (6) MONTh by statute, cause the application to become ABAI	ly be timely filed 30) days will be considered timely. IS from the mailing date of this commur NDONED (35 U.S.C.§ 133).	ication.
Status			
1) Responsive to communication(s) filed (	on <u>17 May 2004</u> .		
2a) This action is <b>FINAL</b> . 2b)	☑ This action is non-final.		
3) Since this application is in condition for	allowance except for formal matter	s, prosecution as to the mer	rits is
closed in accordance with the practice	under <i>Ex parte Quayl</i> e, 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 19-45 is/are pending in the ap 4a) Of the above claim(s) 21-29 is/are v 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 19,20 and 30-45 is/are rejecte 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction	vithdrawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the E	xaminer.		
10) The drawing(s) filed on is/are: a)		the Examiner.	-
Applicant may not request that any objectio	n to the drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the	e correction is required if the drawing(s)	is objected to. See 37 CFR 1.	121(d).
11)☐ The oath or declaration is objected to by	the Examiner. Note the attached (	Office Action or form PTO-15	52.
Priority under 35 U.S.C. § 119			
3. Copies of the certified copies of t application from the International	cuments have been received. cuments have been received in App he priority documents have been re Bureau (PCT Rule 17.2(a)).	olication No eceived in this National Stag	e
* See the attached detailed Office action for	or a list of the certified copies not re	ceived.	
Attachment(s)    X Notice of References Cited (PTO-892)	Λ Π I===::-··· α····	emen. (BTO, 443)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-	948) Paper No(s)/I	nmary (PTO-413) Aail Date	
B) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 05/17/04.		rmal Patent Application (PTO-152)	

#### DETAILED ACTION

## Claim Rejections - 35 USC § 102/103

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 19-20 and 30-44 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Chen et al. (5,554,120) in view of Onwunaka et al. (5,281,677) or Alzner (5,458,935). Chen et al. teaches all the limitations of the claims

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(note summary) except for specific polyurethane resins and polyurethane elastomers as recited by Applicant. Both Onwunaka et al. and Alzner teach polymer blends for use in making medical devices including catheters and balloons for catheters. Specifically he teaches a combination of polymeric components providing characteristics in forming medical instruments such at catheters and balloons wherein the first or second polymeric components are polyurethane resins and polyurethane elastomers as recited by Applicant. It is the Examiner's position that the physical properties are inherent to the blends as recited in the patents. In the alternative, if Applicant disagrees that the physical properties are inherently described in the blends as recited above, it is the Examiner's position that although the references do not expressly disclose the physical properties of distension profile, flexural modulus, wall strength, and burst pressures, at the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to choose any polyurethane resin and elastomer blend that may result in the properties disclosed by Applicant because Applicant has not disclosed that a specific distension profile, flexural modulus, wall strength or burst pressure provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with either of the blends taught by Onwunaka et al. or Alzner or several other polyurethane resin/elastomer blend or any blend with for example a flexural modulus of 250,000, a wall strength of 15,000, a burst pressure of 13 atm, because all of the blends as cited by the prior art perform functions of balloon catheters equally well and are well known in the art of balloon catheters materials for several medical procedures such as angioplasty.

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## Response to Arguments

5. Applicant's arguments, see pages 6-7, filed 05/17/2004, with respect to the rejection(s) of claim(s) s under 19-20 and 30-44 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of new prior art.

### **Contacts**

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Michael Thompson whose telephone number is (703) 305-1619. The Examiner can normally be reached on Monday through Friday from 9 am to 5 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Primary, Brian Casler, can be reached on (703) 308-3552. The official fax phone number for all submissions to the organization where this application or proceeding is assigned is (703) 872-9306.

Michael M. Thompson

Patent Examiner

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700

August 16, 2004